

Property Address:

"Delivering Excellence Every Day" SECTION 1524
HIGH VELOCITY HURRICANE ZONES REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS 1524.1 Scope. As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Chapter 15 of the <i>Florida Building Code</i> , <i>Building</i> govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.
1. Aesthetics-workmanship: The workmanship provisions of Chapter 15 (High Velocity Hurricane Zone) are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provision Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addresse as part of the agreement between the owner and the contractor.
<b>2. Renailing wood decks:</b> When replacing roofing, the existing wood roof deck may have to be renailed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the Florida Building Code. (The roof deck is usually concealed prior to removing the existing roof system).
<b>3. Common roofs:</b> Common roofs are those which have no visible delineation between neighboring units (i.e. townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants of adjacent units of roofing work to be performed.
<b>4. Exposed ceilings:</b> Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The owner provides the option of maintaining this appearance.
5. Ponding water: The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the origin roofing system is removed. Ponding conditions should be corrected.
6. Overflow scuppers (wall outlets): It is required that rainwater flow off so that the roof is not overloaded from a build up of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of: Chapter 15 and 16 herein and the <i>Florida Building Code</i> , <i>Plumbing</i> .
7. Ventilation: Most roof structures should have some ability to vent natural airflow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced. Exception: Attic spaces, designed by a Florida-licensed engineer or registered architect to eliminate the attic venting, venting shall not be required.
Owner's/Agent's Signature: Date: / / /
Contractor's Signature:  Permit Number:

## **INSTRUCTION PAGE**

# COMPLETE THE NECESSARY SECTIONS OF THE UNIFORM ROOFING PERMIT APPLICATION FORM AND ATTACH THE REQUIRED DOCUMENTS AS NOTED BELOW:

Roof System	Required Sections of the Permit Application Form	Attachments Required See List Below
Low Slope Application	A,B,C	1,2,3,4,5,6,7
Prescriptive BUR-RAS 150	A,B,C	4,5,6,7
Asphaltic Shingles	A,B,D	1,2,4,5,6,7
Concrete or Clay Tile	A,B,D,E	1.2.3.4.5,6,7
Metal Roofs	A,B,D	1,2,3,4,5,6,7
Wood Shingles and Shakes	A,B,D	1,2,4,5,6,7
Other	As Applicable	1,2,3,4,5,6,7

### **ATTACHMENTS REQUIRED:**

1.	Fire Directory Listing Page
2.	From Notice of Acceptance: Front Page Specific System Description Specific System Limitations General Limitations Applicable Detail Drawings
3.	Design Calculations per Chapter 16, or If Applicable, RAS 127 or RAS 128
4.	Other Component Notice of Acceptances
5.	Municipal Permit Application
6.	Owners Notification for Roofing Considerations (Re-Roofing Only)
7.	Any Required Roof Testing/Calculation Documentation

## **Section A (General Information)**

Master Permit No.	Process No
Contractor's Name	· · · · · · · · · · · · · · · · · · ·
Job Address	
	ROOF CATEGORY
П Olama	☐ Mechanically Fastened Tile ☐ Mortar/Adhesive Set Tile
☐ Low Slope ☐ Asphaltic	<ul> <li>☐ Mechanically Fastened Tile</li> <li>☐ Metal Panel/Shingles</li> <li>☐ Wood Shingles/Shakes</li> </ul>
Shingles	☐ Prescriptive BUR-RAS 150  Are there  Gas Vent Stacks?
	Yes No
☐ New Roof	☐ Re-Roofing ☐ Recovering ☐ Repair ☐ Maintenance
	ROOF SYSTEM INFORMATION
Low Slope Roof A	rea (SF) Steep Sloped Roof Area (SF) Total (SF)
<del>.</del>	
	0 - 4 D (D 6 D) )
Sketch Roof Plan	Section B (Roof Plan)  : Illustrate all levels and sections, roof drains, scuppers, overflow
scuppers and over	erflow drains. Include dimensions of sections and levels, clearly is of elevated pressure zones and location of parapets.
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## **Section C (Low Sloped Roof System)**

Fill in Specific Roof Assembly Components

Fastener Spacing for Anchor/Base Sheet

Ind Identify Manufacturer (If a component is not used, identify as "NA")	Attachment
	Field:" oc @ Lap, # Rows @" oc
System Manufacturer:	Perimeter:" oc @ Lap, # Rows @" oc
NOA No.:	Comer:" oc @ Lap, # Rows @" oc
Design Wind Pressures, From RAS 128 or Calculations:	_
Pmax1: Pmax2: Pmax3:	Number of Fasteners Per Insulation Board
Max. Design Pressure, From the Specific NOA System:	Field PerimeterCorner
Deck: Type:	Illustrate Components Noted and
туре	Details as Applicable: Woodblocking, Gutter, Edge Termination,
Gauge/Thickness:	Stripping, Flashing, Continuous Cleat, Cant
Slope:	Strip, Base Flashing, Counter- Flashing, Coping, Etc.
Anchor/Base Sheet & No. of Ply(s):	Indicate: Mean Roof Height, Parapet Height,
Anchor/Base Sheet Fastener/Bonding Material:	Height of Base Flashing, Component Material, Material Thickness, Fastener Type, Fastener Spacing or Submit Manufacturers Details that
Insulation Base Layer:	Comply with RAS 111 and Chapter 16.
Base Insulation Size and Thickness:	[ <del></del>
Base Insulation Fastener/Bonding Material:	
Top Insulation Layer:	FT.
Top Insulation Size and Thickness:	Parapet
Top Insulation Fastener/Bonding Material:	Height
Base Sheet(s) & No. of Ply(s):	FT.
Base Sheet Fastener/Bonding Material:	
	Mean Roof
Ply Sheet(s) & No. of Ply(s):	Height
Ply Sheet Fastener/Bonding Material:	
Top Ply:	
Top Ply Fastener/ Bonding Material:	<u> </u>
Surfacing:	

## **Section D (Steep Sloped Roof System)**

Roof System	Manufacture	ər:		
Notice of Acc	ceptance Nur	mber:		**********
Minimum De	sign Wind Pr	essures, If Appl	icable (From RAS 127	or Calculations):
	P1:	P2:	P3:	
	esign Pressu OA Specific S			

## **Steep Sloped Roof System Description**

\	Deck Type:	
	Type Underlayment:	
Roof Slope:	la sulation.	
: 12	Insulation:	
	Fire Barrie	or:
Ridge Ventila	tion?	ener Type & Spacing:
		Adhesive Type:
		Type Cap Sheet:
		Roof Covering:
Mean Ro	of Height:	Type & Size Drip Edge:
-		

### **Section E (Tile Calculations)**

For Moment based tile systems, choose either Method 1 or 2. Compared the values for  $M_r$  with the values from  $M_r$ . If the  $M_t$  values are greater than or equal to the Mr values, for each area of the roof, then the tile attachment method is acceptable.

	Meth	iod 1 "M	oment Based	Tile Calculation	s Per RAS 127"
(P <sub>1</sub> :	xλ	=	) – Mg:	= M <sub>r1</sub>	NOA M <sub>4</sub>
				= M <sub>12</sub>	
(P <sub>3</sub> :	xλ	=	) – Mg:	= M <sub>r3</sub>	NOA M <sub>f</sub>
	Met	thod 2 "S	Simplified Tile	e Calculation Per	Table Below"
Required	Moment of	Resistanc	e (M <sub>r</sub> ) From Tab	le Below	NOA M <sub>f</sub>

	M <sub>r</sub> Required Moment Resistance*						
Mean Roof Height Roof Slope	15'	20'	25'	30'	40'		
2:12	34.4	36.5	38.2	39.7	42.2		
3:12	32.2	34.4	36.0	37.4	39.8		
4:12	30.4	32.2	33.8	35.1	37.3		
5:12	28.4	30.1	31.6	32.8	34.9		
6:12	26.4	28.0	29.4	30.5	32.4		
7:12	24.4	25.9	27.1	28.2	30.0		

<sup>\*</sup>Must be used in conjunction with a list of moment based tile systems endorsed by the Broward County Board of Rules and Appeals.

For Uplift based tile systems use Method 3. Compared the values for F' with the values for F<sub>r</sub>. If the F' values are greater than or equal to the F<sub>r</sub> values, for each area of the roof, then the tile attachment method is acceptable.

#### Method 3 "Uplift Based Tile Calculations Per RAS 127"

(P <sub>1</sub> :	_ x l:	_=	_x w:=	) - W:	x cos θ:	_= F <sub>r1</sub> :	NOA F'
(P <sub>2</sub> :	_ x l:	_ =	_ x w:=	) - W: _	x cos θ:	_ = F <sub>r2</sub> :	NOA F'
							NOA F'

Where to Obtain Information					
Description	Symbol	Where to find			
Design Pressure	P1 or P2 or P3	RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7			
Mean Roof Height	H	Job Site			
Roof Slope	θ	Job Site			
Aerodynamic Multiplier	λ	NOA			
Restoring Moment due to Gravity	Mg	NOA			
Attachment Resistance	$M_{\mathrm{f}}$	NOA			
Required Moment Resistance	M <sub>r</sub>	Calculated			
Minimum Attachment Resistance	F'	NOA			
Required Uplift Resistance	Fr	Calculated			
Average Tile Weight	W	NOA			
Tile Dimensions  All calculations must be submitted to	⊫ length w= width	NOA			